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UNITED STATES OF AMERICA

11 UNITED STATES DISTRICT COURT
12 FOR THE CENTRAL DISTRICT OF CALIFORNIA
13 EASTERN DIVISION
14

15 UNITED STATES OF AMERICA,

16 Plaintiff,

17 v.

18 CALIFORNIA STEM CELL
TREATMENT CENTER, INC.,
19 *et al.*

20 Defendants.
21

No. 5:18-CV-01005-JBG-KKx

**PLAINTIFF'S [PROPOSED] FINDINGS
OF FACT AND CONCLUSIONS OF LAW**

Trial Date: July 28, 2020

Honorable Jesus G. Bernal
United States District Judge
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1 **I. PLAINTIFF'S CLAIMS**

2 1. Defendants violate 21 U.S.C. § 331(k) by causing the adulteration of CSCTC
3 products within the meaning of 21 U.S.C. § 351(a)(2)(B), while they are held for sale after
4 shipment of one or more of their components in interstate commerce.

5 2. Defendants violate 21 U.S.C. § 331(k) by causing the misbranding of CSCTC
6 products within the meaning of 21 U.S.C. §§ 352(f)(1), 352(j), and 353(b)(4), while they
7 are held for sale after shipment of one or more of their components in interstate commerce.

8 3. Defendants CSCTC, Berman, and Lander violate 21 U.S.C. § 331(c) by
9 receiving drugs that are misbranded within the meaning of 21 U.S.C. §§ 352(f)(1) and
10 353(b)(4) in interstate commerce and delivering or proffering for delivery such drugs for
11 pay or otherwise.

12 **II. PROCEDURAL HISTORY**

13 1. This case is an action for civil injunctive relief filed by Plaintiff, the United
14 States of America, on behalf of the U.S. Food and Drug Administration ("FDA"). The
15 Government brings this statutory injunction proceeding pursuant to the Federal Food,
16 Drug, and Cosmetic Act ("FDCA"), 21 U.S.C. § 332(a), to enjoin Defendants, including
17 California Stem Cell Treatment Center, Inc. ("CSCTC"), from violating the FDCA,
18 including its adulteration and misbranding prohibitions.

19 2. The Government filed its Complaint for Permanent Injunction on May 9,
20 2018. Defendants filed their Answer to the Complaint on July 17, 2018. (ECF No. 27).

21 3. On July 8, 2019, the Government moved for summary judgment, on the
22 grounds that Defendants violate the FDCA by, among other things, causing the
23 adulteration and misbranding of drugs. (ECF No. 45).

24 4. On January 27, 2020, the Court denied the Government's summary judgment
25 motion and set the matter for trial ("SMJ Order"). (ECF No. 84). The Court ruled that the
26 "central dispute" at trial would be whether the "same surgical procedure exception
27 exempts the SVF Process from FDA oversight." (*Id.* at 10). The Court specifically
28

1 identified just one issue of fact for trial, namely “whether the SVF Procedure alters the
2 SVF cells.” (*Id.* at 13).

3 5. On March 19, 2020, the Government filed a Motion for Clarification of the
4 Scope of Trial With Respect to the FDCA. (ECF No. 90). The motion sought the Court’s
5 clarification as to whether the Government should (*a*) limit its trial evidence to the single
6 issue of fact identified in the SMJ Order or (*b*) also present evidence to prove the claims
7 in its Complaint that Defendants violate the FDCA by causing the adulteration and
8 misbranding of their drugs, and by receiving and delivering misbranded drugs, in violation
9 of 21 U.S.C. §§ 331(k) and (c).

10 6. On April 14, 2020, the Court ruled on the Government’s Motion for
11 Clarification. (ECF No 102). The Court confirmed that this case “concerns . . . alleged
12 violations of the FDCA” on which the Court had “made no ultimate findings of fact” in
13 its SMJ Order. (*Id.* at 1). The Court ordered the Government to produce evidence at trial
14 to establish any elements where it carries the burden. (*Id.* at 2). Defendants were likewise
15 ordered to produce evidence at trial where they carry the burden. (*Id.*).

16 7. On April 28, 2020, the Court scheduled the case for bench trial on July 28,
17 2020. (ECF No. 114).

18 **III. FINDINGS OF FACT**

19 **A. The Defendants and their CSCTC products**

20 1. Defendant CSCTC is a California professional corporation founded in 2010,
21 with its principal place of business located at 72-780 Country Club Drive, Suite 301,
22 Rancho Mirage, California 92270 (“CSCTC Rancho Mirage”), and a second establishment
23 located at 120 South Spalding Drive, Suite 300, Beverly Hills, California 90212 (“CSCTC
24 Beverly Hills”), within the jurisdiction of this Court.

25 2. CSCTC manufactures, or has caused to be manufactured, several adipose
26 (fat) derived products (“CSCTC products”), including the following: (1) a product
27 containing what is referred to as “stromal vascular fraction” (the “SVF product”) which is
28 manufactured from a patient’s adipose tissue; (2) a product that combines SVF and

1 Vaccinia Vaccine, Live (the “SVF/Vaccinia product”); and (3) a product containing SVF
2 that has been expanded in culture for CSCTC by a third party (the “Expanded SVF
3 product”).¹

4 3. Defendant Elliot B. Lander, M.D., a board-certified urologist and surgeon, is
5 the co-owner and Co-Medical Director of CSCTC. He is the most responsible individual
6 at CSCTC Rancho Mirage and performs his duties at CSCTC Rancho Mirage, within the
7 jurisdiction of this Court. He manages all firm employees at CSCTC Rancho Mirage,
8 where his activities include recovering adipose tissue from patients and manufacturing
9 CSCTC products. Dr. Lander is the co-owner and Co-Medical Director of Defendant Cell
10 Surgical Network (“CSN”). He is also the co-owner of Cells On Ice, Inc., which has
11 assisted in the recovery of adipose tissue sent outside of the State of California for
12 production into the Expanded SVF product.

13 4. Defendant Mark Berman, M.D., a board-certified cosmetic surgeon, is the co-
14 owner and Co-Medical Director of CSCTC. He performs his duties at the CSCTC Beverly
15 Hills facility, within the jurisdiction of this Court. He is the most responsible individual
16 at CSCTC Beverly Hills, where his activities include recovering adipose tissue from
17 patients and manufacturing CSCTC products. Dr. Berman is the co-owner and Co-
18 Medical Director of Defendant CSN and co-owner of Cells On Ice, Inc.

19 5. Defendant CSN is a California corporation founded by Defendants Berman
20 and Lander in 2012 that is registered to do business at 72-780 Country Club Drive, Suite
21 301, Rancho Mirage, California 92270, the same address as CSCTC Rancho Mirage,
22 within the jurisdiction of this Court. CSN operates a one-employee warehouse at 73700
23

24 ¹ Although Defendants insist that they perform “procedures” and do not manufacture
25 products, Defendants have published several medical articles wherein they confirm that
26 the SVF that they administer to patients is a biological product. *See* Elliot B. Lander et
27 al., *Personal cell therapy for interstitial cystitis with autologous stromal vascular fraction*
28 *stem cells*, 11 Therapeutic Advances Urology 1, 5 (2019) (“SVF is an autologous biologic
product derived in surgery from the enzymatic digestion of adipose tissue, which is split
into its fat fraction (adipocytes) and stromal and vascular fractions (containing
regenerative cells”).

1 Dinah Shore Drive, Suite 301, Palm Desert, California 92211, within the jurisdiction of
2 this Court, from which equipment and supplies are shipped to CSN affiliates.

3 6. CSCTC products are intended for autologous use, which refers to the
4 “implantation, transplantation, infusion, or transfer of human cells or tissue back into the
5 individual from whom the cells or tissue were recovered.” See 21 C.F.R. § 1271.3(a).

6 7. CSCTC products are administered to patients to purportedly treat
7 neurological, autoimmune, orthopedic, and degenerative medical conditions and/or
8 diseases, including, but not limited to, cancer, arthritis, stroke, amyotrophic lateral
9 sclerosis (“ALS”), multiple sclerosis (“MS”), macular degeneration, Parkinson’s disease,
10 and chronic obstructive pulmonary disease (“COPD”).

11 8. CSCTC products are administered to patients using a variety of methods,
12 including intravenously; injection into specific areas of the body, including an area around
13 the brain; and via a nebulizer. CSCTC products are administered at CSCTC Rancho
14 Mirage and CSCTC Beverly Hills, and at other locations such as a radiologist’s office in
15 Indian Wells, California.

16 9. Many patients pay thousands of dollars to receive a single dose of the CSCTC
17 product, and some patients pay much more to receive multiple treatments. Defendants
18 have referred to this practice as “patient-funded research.”

19 **B. Defendants cause the disruption and digestion of adipose tissue removed from**
20 **patients to manufacture their cellular-based CSCTC products**

21 10. Production of CSCTC products involves the recovery of adipose tissue from
22 patients at the offices of CSCTC Rancho Mirage and CSCTC Beverly Hills. The tissue
23 recovery is accomplished by a mini-liposuction procedure, whereby a cannula is used to
24 recover adipose tissue through an incision commonly made in the patient’s posterior flank.

25 11. Defendants subject the recovered adipose tissue to numerous steps through
26 which many components of the tissue are broken down and discarded. The process
27 involves the addition of a collagenase solution to isolate cell components through
28 enzymatic digestion. It also includes an incubation period, several washing steps using

1 5% Dextrose in Lactated Ringer's Injection, centrifugation, and filtration. The
2 manufacture of the CSCTC products employs various types of equipment, including, but
3 not limited to, a specialized SVF processing device identified as the "Time Machine,"
4 syringes, plungers, stoppers, adapters, and a filter.

5 12. Adipose tissue is typically defined as a connective tissue composed of
6 predominantly adipocyte cells that are surrounded by an organized extracellular matrix
7 and interspersed small blood vessels, divided into lobes and lobules by connective tissue
8 septa.

9 13. The extracellular matrix that adipose tissue contains is comprised of various
10 types of fibrous collagen and resembles the walls of a three-dimensional foam, with each
11 adipocyte occupying a pore cavity of the foam. The extracellular matrix surrounding the
12 adipocytes is also described as a "reinforced basement membrane." Other than adipocytes,
13 adipose tissue also contains some other cells, including preadipocytes, fibroblasts,
14 vascular endothelial cells, and macrophages.

15 14. Because adipose tissue mainly provides cushioning and support to the body,
16 such as the skin and internal organs, it is a structural tissue. In addition to providing
17 cushioning and support, adipose tissue performs other functions in the body, including
18 storing energy in the form of lipids, and insulating the body.

19 15. One characteristic of adipose tissue is its ability to hold its shape and form.

20 16. Defendants' processing of adipose tissue to manufacture the CSCTC
21 products alters the tissue's physical properties.

22 17. Defendants' processing of adipose tissue alters the original relevant
23 characteristics of the adipose tissue relating to the tissue's utility for reconstruction, repair,
24 or replacement.

25 18. Defendants' processing of adipose tissue to manufacture the CSCTC
26 products involves removing adipocytes from the adipose tissue.

27 19. Defendants' processing of adipose tissue to manufacture the CSCTC
28 products also removes the extracellular matrix and interspersed small blood vessels from

1 adipose tissue.

2 20. After Defendants process adipose tissue into SVF, the SVF product no longer
3 retains the original form of adipose tissue whereby adipocytes are surrounded by an
4 extracellular matrix and interspersed small blood vessels.

5 21. SVF is a liquified mixture of cells and cell debris that does not contain an
6 extracellular matrix and does not contain adipocytes.

7 22. The group of select isolated cells that comprise SVF does not occur naturally
8 in the body. The cells that comprise SVF are brought together only through elimination
9 of the organized adipose tissue architecture and dismantling of organized multicellular
10 structures (e.g., blood vessels).

11 23. SVF is not intended to perform the same basic functions of the adipose tissue
12 recovered from Defendants' patients.

13 24. Defendants do not implant adipose tissue into patients.

14 25. Defendants' preparation and administration of the CSCTC products use one
15 or more components shipped in interstate commerce from places outside the State of
16 California. Components received from outside California include, for example, 0.9%
17 Sodium Chloride Injection, USP and 5% Dextrose in Lactated Ringer's Injection, both of
18 which originate outside the state of California. Defendants' manufacturing process also
19 involves their use of a collagenase product made in Indiana.

20 26. Defendants use a collagenase product (i.e., an enzyme mixture that degrades
21 collagen) made in Indiana to prepare their SVF product.

22 27. Defendants use the collagenase product to disrupt and digest the reinforced
23 basement membrane to dissociate the cellular components of the adipose tissue.

24 28. Safety concerns reasonably arise when an enzyme is used to disrupt and
25 digest adipose tissue to isolate cells that are later administered to patients. The safety risks
26 of enzymes used to breakdown adipose tissue were recognized, for example, in *Cytori*
27 *Therapeutics v. FDA*, 715 F.3d 922 (D.C. Cir. 2013). In *Cytori*, the petitioner challenged
28 FDA's determination that its medical devices, which isolated cells from fat tissue, were

1 not substantially equivalent to predicate devices that isolated cells from blood and bone
2 marrow. In determining that FDA’s determination was reasonable, the Court highlighted
3 FDA’s concern that Cytori’s devices used an enzyme (Celase) “to aid the separation of
4 stem cells from fat tissue,” and that Celase had only been approved by FDA to liquefy fat
5 waste after liposuction for purposes of disposal. 715 F.3d at 927. The Court explained
6 that FDA “reasonably raised concerns” about the enzyme’s impact on isolated cells that
7 “might be reintroduced into the human body.” *Id.* at 927-928.

8 29. Defendants do not confirm that the collagenase enzyme used during
9 production has been eliminated before the CSCTC products are administered to patients.

10 30. Certificates of Analysis received by Defendants indicate that the enzyme used
11 during production is to be used “for in vivo use only” as opposed to surgical use.

12 31. Defendants administer certain of their CSCTC products—such as their SVF
13 product—on the same day that the patient’s adipose tissue is removed. For intravenous
14 administration, the SVF is added to a 100ml bag of 0.9% Sodium Chloride (NaCl) solution
15 and given to the patient through an intravenous drip. This combination of SVF and
16 Sodium Chloride solution constitutes the “SVF Product.”

17 32. Labeling on the CSCTC products lacks indications for use, dosages, routes
18 of administration, and side effects. The labeling on the CSCTC products does not identify
19 them as “Rx only.”

20 **C. Defendants’ manufacturing process for the CSCTC products alters the SVF cells²**

21 33. In their Responses to Plaintiff’s First Set of Interrogatories, Defendants
22 acknowledged that they “obtain[] the patient’s own cells from his/her adipose tissue.”

23 34. Briefly, SVF isolation by Defendants begins with aspiration and recovery of

24 ² The Government does not concede that the alteration of the SVF cells specifically is
25 relevant to an analysis of the Same Surgical Procedure exception set forth in 21 C.F.R. §
26 1271.15(b). The Government respectfully maintains that the section 1271.15(b) analysis
27 turns on whether “such HCT/P”—here, adipose tissue—is returned to the patient, not
28 whether cells isolated from that tissue are altered. In its SMJ Order, the Court specifically
noted that “whether the SVF Procedure alters the SVF cells” would be relevant at trial.
(ECF No. 84 at 13). The Government proffers factual findings relating to SVF cell
alteration solely to address this issue identified by the Court.

1 approximately 50 mL of adipose tissue from the individual. The aspirated adipose tissue
2 is centrifuged to remove blood cells, loose lipids, and local anesthetic solution.
3 Defendants then add an enzyme mixture that degrades collagen, among other proteins, to
4 the adipose tissue in order to disrupt and digest the reinforced basement membrane to
5 dissociate the cellular components of the adipose tissue. The digested tissue undergoes a
6 series of processing steps including washing and centrifugation, to separate non-adipocyte
7 cellular and digested structural components of the tissue from dissociated adipocytes and
8 free lipids. Defendants next employ filtration whereby the non-adipocytic cells (i.e., SVF)
9 are isolated from the digested structural components of the adipose tissue by pushing the
10 mixture through a filter where the pore size effectively only allows cells below a certain
11 diameter to pass, i.e., the digested structural components of the adipose tissue are filtered
12 out. What remains, according to Defendants, is the isolated SVF suspended in a solution
13 to yield the final CSCTC SVF product of approximately 5-10 mL.

14 35. The enzymatic digestion and other processing steps Defendants undertake to
15 isolate the SVF cells from the adipose tissue alter the physical and biological
16 characteristics of the SVF cells in the CSCTC products. Physical characteristics of cells
17 include shape and physical form (i.e., morphology) and cell surface receptor expression.
18 Biological characteristics of cells include activation state, differentiation and proliferation
19 potential, and metabolic activity.

20 36. When tissue is enzymatically digested, cells that are necessarily adhered to
21 the extracellular matrix and normally assume a flat, spread and protruded morphology in
22 their native state change to a contracted, spherical form. Consequently, the inner
23 cytoskeleton of the cells that is responsible for providing mechanical support and for
24 keeping internal cellular structures organized loses tension and extensively rearranges.
25 Enzymatic digestion of tissue also cleaves proteins on the surface of the cell, including
26 cell surface receptors that are critical in mediating cell signaling among other key aspects
27 of cellular function and behavior.

28 37. The manufacture of CSCTC's SVF Product involves the dissociation of the

1 extracellular matrix through enzymatic digestion and, consequently, changes in the
2 activation state of cells in the resulting cell suspension. This means the main attributes of
3 cells (e.g., cell surface receptor expression) and their behavior (e.g., signaling activity)
4 change in response to a stimulus. Depending on the nature of the response(s) to a stimulus,
5 cells change their metabolic activity. Upon activation, cells generally increase their
6 metabolic activity to meet the demands of stimulation.

7 38. A report submitted by Defendants' expert, Dr. Lola M. Reid, states that
8 "dissociation of the extracellular matrix with collagenase results in cell suspensions with
9 activation of especially early lineage state cells and their paracrine signaling." Processing
10 that affects the activation state and signaling activity of cells alters cellular processes, their
11 metabolic activity, and the cells' capacity to mediate the behavior of other cells in the case
12 of paracrine signaling. Thus, the *ex vivo* enzymatic processing that dissociates the
13 extracellular matrix of adipose tissue in CSCTC's manufacture of the SVF Product alters
14 the relevant biological characteristics of the cells derived from the adipose tissue.

15 39. Enzymatic digestion of the structural components of adipose tissue (e.g.,
16 extracellular matrix and blood vessels) also disrupts critical cell adhesion to other cells
17 and particularly to the extracellular matrix. Cell adhesion to other cells and to the
18 extracellular matrix governs how cells responds to their environment and, consequently,
19 cell behavior.

20 40. Anchorage-dependent cells, such as the stromal and vascular cells that
21 comprise SVF, will not grow, proliferate, or differentiate—and some cell types will not
22 survive—unless they are attached to extracellular matrix. Thus, the *ex vivo* enzymatic
23 processing that eliminates cell attachment alters the proliferation and differentiation
24 potential of the cells derived from the adipose tissue.

25 41. When the extracellular matrix is digested, and the dissociated cells are
26 filtered, key cellular functions of these cells, including but not limited to cell adhesion,
27 cell-cell signaling, and cell-extracellular matrix signaling, are effectively abolished. As a
28 result, the different cell types are removed from their organized microenvironment and

1 cannot mediate their specialized roles.

2 42. For example, adipose tissue contains endothelial cells which are organized
3 through specialized cell-cell adhesions to protectively line the inside of blood vessels and
4 allow white blood cells to move into (i.e., extravasate to) the target surrounding tissue. As
5 single free-floating cells in SVF due to processing, they no longer can mediate these
6 functions.

7 43. Defendants have not demonstrated that the processing they undertake does
8 not alter the cells contained in the CSCTC products they administer to their patients.

9 **D. Defendants manufactured certain CSCTC products containing a live virus**

10 44. Defendants have manufactured an SVF/Vaccinia product involving a
11 combination of SVF and Vaccinia Vaccine, Live. Vaccinia Vaccine, Live, is also known
12 by its proprietary name ACAM2000. ACAM2000 is an FDA-approved biological product
13 for active immunization against smallpox disease for persons determined to be at high risk
14 for smallpox infection. The vaccine's labeling is required to display a "black box
15 warning" designed to call attention to serious or life-threatening product risk, including
16 swelling of the heart tissues, brain, or spinal cord. See 21 C.F.R. § 201.57(c)(1).

17 45. Defendants have promoted and used their SVF/Vaccinia product as a
18 purported treatment for a variety of advanced-stage cancers. The SVF/Vaccinia product
19 was administered to patients intravenously or directly into patients' tumors. The
20 SVF/Vaccinia product contained amounts of the vaccine that greatly exceeded the
21 vaccine's labeled dose.

22 46. At her deposition, Defendants' expert witness, Lola M. Reid, Ph.D.,
23 conceded that adding a vaccine to SVF would make her "nervous" because "there are
24 many things that can happen."

25 47. The Vaccinia Vaccine, Live, that Defendants used to manufacture their
26 SVF/Vaccinia product was shipped in interstate commerce from Georgia.

E. Defendants have received certain CSCTC products manufactured outside California

48. To manufacture their Expanded SVF product, Defendants sent recovered adipose tissue to a firm located outside of the State of California. The outside firm used enzymes and laboratory equipment, including a centrifuge and a filter, to produce SVF from the adipose tissue. It then cultured the SVF to expand it to a higher cell density. The Expanded SVF products subsequently were returned in interstate commerce to CSCTC Rancho Mirage and CSCTC Beverly Hills and administered to patients.

F. Defendants control a network of affiliates that also administer their SVF products

49. Defendant CSN, which is co-owned by Defendants Berman and Lander, approves doctors to become affiliates or licensees. CSN affiliates are required “to complete training” by the Defendants regarding the manufacture of the SVF product. Once approved for inclusion in the CSN network, CSN affiliates purchase supplies from CSN to make the CSCTC SVF products. To maintain their status, CSN affiliates must share research data with Defendants and other CSN affiliates.

50. CSN affiliates are “required to comply with” CSN’s “Guidelines for Affiliates,” which states that an affiliate “must” “reasonably follow price guidelines to avoid competition for patient enrollment within the network,” register patients into the CSN Database, and use standardized forms, including specific consent forms for patient care and data collection.

51. CSN’s “Guidelines for Affiliates” describes that affiliates have limited permission to use various trademarks and logos, including logos for California Stem Cell Treatment Center, CSCTC, and Cell Surgical Network.

52. Defendant Lander asserted that CSN affiliate doctors have administered SVF products to more than 6,000 patients. Defendants Berman and Lander refer to CSN affiliate clinics as “sub-investigators.”

G. Defendants claim their CSCTC products treat cancer and other serious diseases and conditions

53. A CSN website, <http://stemcellrevolution.com/about-us/faqs/>, answers the question “Can stem cells treat cancer?” and explains that CSN is involved in “cutting edge clinical trials using stem cells to carry cancer-killing biologic agents deep into cancer tissue that has not responded to conventional therapy.”

54. A CSN website, <https://stemcellrevolution.com/currently-studying>, lists more than 30 diseases or conditions that CSN is “currently studying,” including MS, ALS, cardiomyopathy, lupus, and macular degeneration.

55. A CSCTC brochure entitled “Adipose Stem Cell Therapy and You” that Defendants provided to prospective patients markets “a solution rich with your own stem cells” that “can be deployed to treat a number of degenerative conditions and diseases.” The brochure notes that there have been “reports of improvements with MS, Muscular Dystrophy, Parkinson’s, ALS, and stroke.”

56. A videotaped interview of Defendant Lander, available at <https://www.youtube.com/watch?v=otushsFxxkw>, promotes SVF “for cancer therapies,” arthritis, heart disease, lung disease and interstitial cystitis, and “brain conditions [by] injecting the cells directly into the brain.”

57. A video by Defendant Berman, available at <https://www.youtube.com/watch?v=SVVQrosn0gc>, describes the SVF product as “magical cells in your fat” and “liquid magic” used to treat “COPD, heart disease, neurodegenerative problems, . . . interstitial cystitis . . . Peyronie’s and erectile dysfunction.”

58. A CSN FAQ video, available at https://www.youtube.com/watch?v=fWi_UzX-i_A, describes CSN’s “investigative protocols for studying . . . arthritis, neurologic disease, urologic disease” and how the same cells are “capable of fixing anything.”

H. Defendants’ CSCTC products lack FDA approval for any such uses

59. None of the CSCTC products have been licensed or approved by the United States Food and Drug Administration (“FDA”) for any use.

1 60. There are not now, nor have there ever been, any approved new drug
2 applications (“NDAs”) filed with FDA pursuant to 21 U.S.C. § 355(b) or (j) for the
3 CSCTC products. There are not now, nor have there ever been, any approved biologics
4 license applications (“BLAs”) filed with FDA pursuant to 42 U.S.C. § 262 for the CSCTC
5 products.

6 61. Although Defendants have had discussions with FDA concerning their desire
7 to study the SVF/Vaccinia product pursuant to an Investigational New Drug Application
8 (“IND”) under 21 U.S.C. § 355(i), no IND is currently in effect for that product or for any
9 of Defendants’ other CSCTC products.

10 62. There have been no adequate and well-controlled studies performed with the
11 Defendants’ CSCTC products demonstrating that they are safe or effective for any
12 indication (i.e., for any intended use).

13 63. Defendants’ CSCTC products are not generally recognized, among experts
14 qualified by scientific training and experience to evaluate the safety and effectiveness of
15 drugs, as safe and effective for use under the conditions prescribed, recommended, or
16 suggested in their labeling.

17 64. Medical expertise, licensure, and appropriate subspecialty training are
18 required to diagnose the diseases and condition(s) that Defendants purport to treat and to
19 determine the appropriate therapeutic intervention(s) for diseases and conditions for which
20 the CSCTC products are used.

21 65. Medical expertise, licensure, and/or appropriate training are required to
22 administer the CSCTC products through the intended parenteral routes of administration.

23 66. Autologous biological products may be created for individual patients using
24 the patients’ own cells and FDA routinely reviews applications concerning such products.

25 **I. Inspections show Defendants and the CSCTC products violate the law**

26 67. FDA inspected CSCTC Rancho Mirage from July 17-26, 2017, and CSCTC
27 Beverly Hills from July 21-27, 2017. At the close of the inspections, FDA investigators
28 issued lists of inspectional observations (“Form FDA 483s”) to Defendants Berman and

1 Lander.

2 68. The July 2017 inspections showed that the manner in which Defendants
3 manufacture the CSCTC products did not comply with current Good Manufacturing
4 Practice regulations for drugs (“CGMP”). The 2017 inspections showed that the methods,
5 facilities, and controls Defendants used in manufacturing, processing, packing, and
6 holding the CSCTC products did not conform to, and are not operated or administered in
7 conformity with, CGMP. See 21 U.S.C. § 351(a)(2)(B) and 21 C.F.R. Parts 210-211; see
8 also 21 C.F.R. Parts 600-680 (setting forth additional standards and manufacturing
9 requirements applicable to biological products).

10 69. The July 2017 inspections showed that Defendants failed to establish and
11 follow appropriate written procedures designed to prevent microbiological contamination
12 of drug products purporting to be sterile, in violation of 21 C.F.R. § 211.113(b), because
13 they did not prepare the CSCTC products under aseptic conditions, nor did they validate
14 their manufacturing process to demonstrate that it was aseptic.

15 70. For example, the FDA investigators found that at both the CSCTC Rancho
16 Mirage and Beverly Hills facilities, Defendants cleaned the “surgery” rooms where
17 adipose tissue was recovered from patients only three times a week and performed no
18 environmental monitoring to demonstrate that such cleaning was acceptable for aseptic
19 manufacturing.

20 71. FDA investigators at the CSCTC Rancho Mirage facility observed that
21 Defendants allowed a patient to wear street clothes in the “surgery” room, and that
22 Defendants left the door to the “surgery” room open with a floor fan blowing air through
23 the doorway from elsewhere in the building while recovering adipose tissue and
24 manufacturing the CSCTC products.

25 72. The July 2017 inspections also showed that Defendants did not subject
26 CSCTC products to appropriate laboratory testing to ensure that they were free of
27 objectionable microorganisms, as required by 21 C.F.R. § 211.165(b), to ensure the safety
28 of those products. For example, Defendants performed no sterility or endotoxin testing

1 on batches of autologous SVF product at their CSCTC Rancho Mirage and Beverly Hills
2 facilities at the time of FDA's 2017 inspections. Additionally, although CSCTC's
3 SVF/Vaccinia Vaccine Safety Protocol stated that "Aliquots of each cell suspension will
4 be set aside for endotoxin testing and sterility testing . . . [and] SVF will only be released
5 for injection after confirmation of endotoxin assay results of level of EU less than or equal
6 to 5EU/kg/hr and negative gram stain results," Defendants did not follow these guidelines
7 at either CSCTC facility.

8 73. CSCTC also failed to establish a system for monitoring environmental
9 conditions to prevent contamination during aseptic processing, as required by 21 C.F.R.
10 § 211.42(c)(10)(iv). For example, during FDA's 2017 inspections of the CSCTC
11 facilities, Defendants manufactured the SVF and SVF/Vaccinia products in a "surgery"
12 room with no environmental monitoring program. Defendants did not perform any type
13 of surface, air, or personnel monitoring for viable microorganisms, nor any active air
14 monitoring for non-viable particles.

15 74. CSCTC failed to establish written procedures for production and process
16 control designed to assure the drug products have the identity, strength, quality and purity
17 they purport or are represented to possess, as required by 21 C.F.R. § 211.100(a), because
18 they failed to validate the manufacturing process and perform in-process testing and
19 establish specifications for a safe and effective final product. Specifically, although
20 Defendants Berman and Lander confirmed that CSCTC performs viability and cell count
21 testing on the final SVF product, the testing is performed without any specifications or
22 release criteria, and no other testing was performed. Additionally, Dr. Lander stated that
23 regardless of the SVF testing results, he would still administer the patient's cells back to
24 them.

25 75. CSCTC failed to establish laboratory controls that include scientifically
26 sound and appropriate specifications, standards, sampling plans, and test procedures
27 designed to assure that components, drug product containers, closures, in-process
28 materials, labeling, and drug products conform to appropriate standards of identity,

1 strength, quality, and purity, as required by 21 C.F.R. § 211.160(b). For example:

- 2 • CSCTC failed to establish specifications/acceptance criteria and did not
3 perform testing on the components used to manufacture their SVF product,
4 including the TMAX enzyme used to process adipose tissue. Although
5 Defendants obtained Certificates of Analysis (“COAs”) for the TMAX
6 enzyme, several COAs stated that the product was “For in Vitro Use Only.”
7 Defendants, however, were using it in a clinical setting to prepare the CSCTC
8 products.
- 9 • Additionally, the Defendants failed to evaluate the impact of freezing/thawing
10 on the TMAX enzyme used in their manufacture of SVF products.
- 11 • No testing was performed on ACAM2000 Vaccinia Virus vaccine prior to
12 mixing it with SVF for administration to patients.
- 13 • For their Expanded SVF product, there was no documentation showing when
14 the expanded cells were received at CSCTC’s Rancho Mirage facility, or the
15 condition of expanded cells upon receipt, or the condition under which the
16 expanded cells were stored. In addition, although Defendants’ protocol for
17 frozen or expanded cells states that “a sample should be evaluated on site for
18 gram stain or rapid infection evaluation . . . [or alternatively] sent out for
19 routine culture to validate the maintenance of sterility during transportation as
20 a further validation of the reported laboratory sterility” Dr. Lander
21 confirmed that such measures were not performed.

22 **J. Defendants’ CSCTC products and similar products are associated with adverse**
23 **events**

24 76. On February 6, 2017, a patient with COPD lost consciousness and was
25 hospitalized after being treated with Defendants’ SVF product intravenously and with a
26 nebulizer at CSCTC Beverly Hills. Defendants did not identify the event as an adverse
27 event. Yet Defendants noted in the patient’s records that in the future, the patient should
28 only receive intravenous SVF and “NO nebulizer.”

77. On April 16, 2016, a patient who received SVF product injected through a
catheter into the area around the brain at CSCTC Beverly Hills was hospitalized when
testing revealed evidence of infection.

1 78. On March 21, 2016, a patient who received SVF product in her knee at
2 CSCTC Beverly Hills reported experiencing an infection and being unable to walk for six
3 months.

4 79. Defendants also received reports of adverse events related to the
5 administration of the CSCTC products by CSN affiliates.

6 80. Defendants' records show that a patient who received an "SVF surgical
7 procedure" in her eyes from a CSN affiliate on or about September 8, 2016, reported a
8 retinal detachment. Defendants subsequently told affiliates that SVF was no longer to be
9 injected into patients' eyes.

10 81. Scientific literature documents the harmful effects that may occur as a result
11 of administering cellular products derived from adipose tissue using routes of
12 administration such as those intended for Defendants' SVF product. Those harmful effects
13 include administration site reactions such as swelling, tendonitis, and intra-articular pain,
14 as well as systemic reactions manifested by transient fever, facial flushing and myalgia,
15 and pulmonary embolism.³

16 82. In March 2017, the New England Journal of Medicine ("NEJM") published
17 a report on the three "serious adverse events" involving adipose-derived stromal vascular
18 fraction products similar to those manufactured by the Defendants. See Ajay E. Kuriyan,
19 et al., Vision Loss after Intravitreal Injection of Autologous "Stem Cells" for AMD, 376
20 NEW ENG. J. MED. 1047, 1050 (Mar. 16, 2017), available at
21 <http://www.nejm.org/doi/full/10.1056/NEJMoa1609583#t=article> (last accessed: July 3,

22
23 ³ See, e.g., Pak J et al, Safety reporting on implantation of autologous adipose tissue-
24 derived stem cells with platelet-rich plasma into human articular joints. BMC,
25 Musculoskelet Disord, 2013;14-337; Siennicka K et al, Adipose-derived cells (stromal
26 vascular fraction) transplanted for orthopedic or neurological purposes: are they safe
27 enough? Stem Cell International, 2016 Article ID 5762916; Lalu MM et al, Safety of cell
28 therapy with mesenchymal stromal cells (SafeCell): a systematic review and meta-analysis
of clinical trials. PLoS ONE 2012;7 (10): e47559; Rodriguez JP et al, Autologous stromal
vascular fraction therapy for rheumatoid arthritis: rationale and clinical safety. Int Arch
Med, 2012, 5:5; Jung JW et al, Familial occurrence of pulmonary embolism after
intravenous adipose tissue-derived stem cell therapy. Yonsei Med J, 2013;54: 1239-96;
and Tatsumi et al, Tissue factor triggers procoagulation in transplanted mesenchymal stem
cells leading to thromboembolism. Biomedical and Biophysical Research
Communications 2013, 431; 203-209).

2020). The NEJM report acknowledged that experimentation on patients in this manner could lead to “devastating outcomes.” Id. The NEJM report noted that the patients’ complications were “probably due to the stem-cell preparations.” Id. at 1052.

K. Defendants received prior warnings of their FDCA violations

83. Prior to the July 2017 inspections, Defendants knew that a CSN affiliate had received a Warning Letter from FDA in December 2015 concerning the affiliate’s preparation and administration of SVF. The 2015 Warning Letter to the CSN affiliate explained that Defendants’ unapproved SVF product was a drug and biological product under the FDCA, and that it was not being lawfully marketed under the FDCA.

84. Both during and following the July 2017 inspections, Defendants asserted to FDA that they did not manufacture drugs or biological products and that they were not subject to the FDCA.

85. In August 2017, United States Marshals seized five vials of ACAM2000 that Defendants used to prepare their SVF/Vaccinia product.⁴

86. Following the seizure, Defendants issued a press release stating that FDA showed “a lack of understanding surrounding autologous surgical procedures” and noted that Defendants had submitted “multiple IDE and IND applications to FDA.” As Defendants knew at the time, FDA had never approved any such IDE, nor had any IND ever gone into effect for any of the CSCTC products.

87. During additional communications with FDA in August and October 2017, Defendants reiterated that they were not subject to the FDCA.

88. Defendants have never acknowledged that they have violated the FDCA as to their SVF/Vaccinia product. The Government’s seizure of ACAM2000 does not prevent Defendants from trying to obtain ACAM2000 again, or to combine SVF with any other live virus or vaccine.

89. Defendants have never acknowledged that they have violated the FDCA as

⁴ See *United States v. Five Articles of Drug, ACAM2000, Vaccinia Vaccine, Live*, 8:17-CV-01449-JVS-(KESx) (C.D. Cal. Mar. 20, 2018), ECF No. 27.

1 to their Expanded SVF product. This is true even after Defendants' contract manufacturer
2 for the Expanded SVF product received a Warning Letter from FDA and committed to
3 comply with the law. FDA's 2018 Warning letter to the contract manufacturer explained
4 that FDA approvals were required for the Expanded SVF products and identified evidence
5 of significant CGMP violations. The voluntary compliance by Defendants' contract
6 manufacturer does not prevent Defendants from committing or causing similar violations
7 of the FDCA.

8 **L. FDA's Regulation of HCT/Ps under the Public Health Service Act**

9 90. Under the authority of section 361 of the Public Health Service Act
10 ("PHSA"), 42 U.S.C. § 264, FDA established regulations for "human cells, tissues, or
11 cellular or tissue-based products" ("HCT/Ps") to prevent the introduction, transmission,
12 and spread of communicable diseases.⁵ These regulations can be found in 21 C.F.R. Part
13 1271. Thus, the Same Surgical Procedure exception and other regulations in Part 1271
14 were promulgated pursuant to the PHSA, 42 U.S.C. § 201 *et seq.*, and not the FDCA, 21
15 U.S.C. § 301 *et seq.*

16 91. In a March 4, 1997 Federal Register notice (62 Fed. Reg. 9721), FDA
17 announced the availability of a document entitled "Proposed Approach to Regulation of
18 Cellular and Tissue-Based Products (dated February 28, 1997)" ("Proposed Approach").⁶
19 In the Proposed Approach, FDA recognized that in certain circumstances cells or tissues
20 removed and subsequently transplanted during surgical procedures would be excepted
21 from FDA regulation. Proposed Approach at 7. But the Proposed Approach made clear
22 that any exception from FDA regulation would be narrow. For example, "[c]ells and
23 tissues that were manipulated extensively, combined with non-tissue components, or were
24

25 ⁵ HCT/Ps are defined as "articles containing or consisting of human cells or tissues that
26 are intended for implantation, transplantation, infusion, or transfer into a human recipient."
21 C.F.R. § 1271.3(d).

27 ⁶ See Proposed Approach, FDA Dkt. No. 97N-0068 (February 1997)
28 <https://www.fda.gov/regulatory-information/search-fda-guidance-documents/proposed-approach-regulation-cellular-and-tissue-based-products>.

1 to be used for other than their normal functions would be regulated as biologics or devices
2 requiring premarket approval by FDA.” *Id.* at 7; *United States v. US Stem Cell*, 403 F.
3 Supp. 3d 1279, 1291 (S.D. Fla. 2019).

4 92. The Proposed Approach was not a guidance document. Rather it was
5 described in FDA’s Federal Register announcement as a “Notification of proposed
6 regulatory approach.” The Proposed Approach was akin to an Advance Notice of
7 Proposed Rulemaking⁷ in that it gave the public notice of the FDA’s early thinking about
8 the regulation of “human cellular and tissue-based products.” The Proposed Approach
9 started the process of engaging the public on this topic to inform FDA’s drafting of a
10 proposed rule. Accordingly, FDA’s Federal Register notice announced that FDA would
11 hold a public meeting to solicit information and views on the Proposed Approach, and
12 further requested the public’s written comments so that the agency could “ensure their
13 adequate consideration in preparing FDA’s *final approach* to the regulation of cellular and
14 tissue-based products.” *Id.* (emphasis added).

15 93. Subsequently, in the Federal Register of May 14, 1998, FDA published its
16 Proposed Rule Concerning “Establishment Registration and Listing for Manufacturers of
17 Human Cellular and Tissue-Based Products.” *See* 63 Fed. Reg. 26744 (“Proposed Rule”).
18 In the preamble to its 1998 Proposed Rule, FDA included a discussion and example that
19 illustrated the narrow scope of the Same Surgical Procedure exception, as then proposed:

20 An establishment or person that removes human cellular or tissue-based
21 products from an individual and then implants, transplants, infuses, or
22 transfers those cells or tissues into the same individual is not required
23 to register or list with the agency, so long as the human cellular or tissue
24 based product is quarantined pending completion of the surgery. For

25
26 ⁷ An Advance Notice of Proposed Rulemaking is a preliminary notice, published in the
27 Federal Register, announcing that an agency is considering a regulatory action. The
28 agency issues an ANPRM before it develops a detailed proposed rule. An ANPRM
describes the general area that may be subject to regulation and usually asks for public
comment on the issues and options being discussed. An ANPRM is issued only when an
agency believes it needs to gather more information before proceeding to a notice of
proposed rulemaking. *See* <https://www.reginfo.gov/public/jsp/eAgenda/Abbrevs.myjsp>.

1 example, a surgeon might remove a saphenous vein from a patient for
2 use in a later coronary bypass in the same patient. Registration and
3 listing would not be required unless the saphenous vein was stored with
4 other cellular or tissue-based products.

5 Proposed Rule, 63 Fed. Reg. at 26748; *see US Stem Cell*, 403 F. Supp.
6 3d at 1291.

7 94. On January 19, 2001, through notice and comment rulemaking, FDA issued
8 its Final Rule, which codified the Same Surgical Procedure exception in 21 C.F.R. §
9 1271.15(b) in the form it exists today.⁸ The preamble to the Final Rule clarified, among
10 other things, that “hospitals that store autologous cells or tissues for subsequent application
11 in the same patient” would qualify for the Same Surgical Procedure exception “so long as
12 the hospital does not engage in any other activity encompassed within the definition of
13 ‘manufacture’” such as “expand[ing] the cells or tissues.” 66 Fed. Reg. 5447, 5460 (Jan.
14 19, 2001); *see US Stem Cell*, 403 F. Supp. 3d at 1291-92.

15 95. FDA issued its non-binding interpretation of the limited scope of the Same
16 Surgical Procedure exception long before this case was initiated.⁹ The interpretation was
17 explained in several guidance documents, including a Draft Guidance for Industry released
18 in October 2014 (“2014 Draft Guidance”)¹⁰ and a Final Guidance issued in November

19
20 ⁸ Final Rule Concerning Human Cells, Tissues, and Cellular and Tissue-Based Products;
21 Establishment Registration and Listing (“Final Rule”), 66 Fed. Reg. 5447, 5468 (Jan. 19, 2001).

22 ⁹ The Government brought this enforcement action based on the authority, plain meaning,
23 and binding effect of the FDCA, PHSA, and Part 1271 regulations rather than any agency
24 guidance. *See generally* Pl.’s Compl. (ECF No. 1). FDA’s Guidances and the Same
Surgical Procedure exception’s history set forth therein are referenced to establish that
deference would be appropriate were this Court to find the exception ambiguous.

25 ¹⁰ *Same Surgical Procedure Exception under 21 CFR 1271.15(b): Questions and*
26 *Answers Regarding the Scope of the Exception, Draft Guidance for Industry* (Oct. 2014),
27 <https://wayback.archiveit.org/7993/20170404000725/https://www.fda.gov/downloads/BiologicsBloodVaccines/GuidanceComplianceRegulatoryInformation/Guidances/Tissue/UCM419926.pdf>.
28

2017 (“2017 Final Guidance”).¹¹

96. Consistent with the examples provided during development of the regulation and in the preamble to the Final Rule, FDA’s 2014 Draft Guidance provided examples of HCT/P’s used in surgical procedures that would be entitled to the Same Surgical Procedure exception, including “autologous skin grafting and coronary artery bypass surgery involving autologous vein or artery grafting.” 2014 Draft Guidance at 4. FDA further explained that an establishment that processes an HCT/P after removal and prior to implantation generally would not qualify for the exception.

97. In finalizing the guidance in November 2017, FDA reiterated the exception’s narrow reach and the agency’s belief that “[g]enerally, the only processing steps that will allow an HCT/P to remain ‘such HCT/P’ are rinsing, cleansing, sizing, and shaping.” 2017 Final Guidance at 5. FDA’s 2017 Final Guidance further reiterated that an establishment that processes an autologous HCT/P after removal and prior to implantation generally would not qualify for the Same Surgical Procedure exception. *Id.* at 7.

98. The 2017 Final Guidance followed a public notice and comment period as well as a two-day public hearing. 79 Fed. Reg. 63348 (Oct. 23, 2014) (announcing a 60-day public comment period). Defendant Lander and other members of the public participated in the hearing. *See* Tr. of Part 15 Hearing: Draft Guidances Relating to the Regulation of Human Cells, Tissues, or Cellular or Tissue-based Products at 148-153 (Sept. 12, 2016).¹²

M. FDA’s Enforcement Discretion Policy Does Not Extend to Products That Raise Potential Significant Safety Concerns

99. In 2017, FDA issued a guidance entitled “Regulatory Considerations for

¹¹ *Same Surgical Procedure Exception under 21 CFR 1271.15(b): Questions and Answers Regarding the Scope of the Exception* (Nov. 2017), <https://www.fda.gov/media/89920/download>.

¹² <https://www.fda.gov/downloads/BiologicsBloodVaccines/NewsEvents/WorkshopsMeetingsConferences/UCM532350.pdf>.

Human Cells, Tissues, and Cellular and Tissue-Based Products: Minimal Manipulation and Homologous Use” which clarified FDA’s interpretation of certain criteria concerning the regulation of HCT/P’s. The guidance explained that FDA generally intended to exercise enforcement discretion with respect to certain premarket approval requirements for a period of 36 months. However, the guidance clarified that such enforcement discretion would only be applied “where use of the HCT/P does not raise reported safety concerns or potential significant safety concerns.”

100. The guidance further clarified that focus would be on products with higher risk profiles:

FDA intends to focus enforcement actions on products with higher risk, including based on the route and site of administration. For example, actions related to products with routes of administration associated with a higher risk (e.g., those administered by intravenous injection or infusion, aerosol inhalation, intraocular injection, or injection or infusion into the central nervous system) will be prioritized over those associated with a lower risk (e.g., those administered by intradermal, subcutaneous, or intra-articular injection).

Guidance at 21-22.

Any Finding of Fact which is properly deemed a Conclusion of Law shall be considered a Conclusion of Law.

IV. CONCLUSIONS OF LAW

A. Jurisdiction and Venue Are Established

1. The Court has jurisdiction over the parties and the subject matter of this action pursuant to 21 U.S.C. § 332(a) and 28 U.S.C. §§ 1331, 1337, and 1345.

2. Venue in this district is proper under 28 U.S.C. §§ 1391(b) and (c).

B. Defendants and their CSCTC products are subject to FDA regulation

3. Under the FDCA, a “drug” includes any article that is “intended for use in the diagnosis, cure, mitigation, treatment, or prevention of disease,” 21 U.S.C. § 321(g)(1)(B), or that is “intended to affect the structure or any function of the body,” 21 U.S.C. § 321(g)(1)(C).

4. The CSCTC products are “drugs” within the meaning of the FDCA, 21 U.S.C. § 321(g)(1)(B) and (C), because Defendants’ records, public statements, and information contained on Defendants’ websites and elsewhere establish that CSCTC products are intended to be used in the cure, mitigation, or treatment of diseases in man and/or to affect the structure and function of the body.

5. The CSCTC products are “prescription drugs” within the meaning of 21 U.S.C. § 353(b)(1)(A) because, due to their toxicity or other potentiality for harmful effect, or the method of their use, or the collateral measures necessary to their use, they are not safe for use except under the supervision of a practitioner licensed by law to administer such drug.

6. The CSCTC products are “new drugs” within the meaning of 21 U.S.C. § 321(p)(1), because they are not generally recognized, among experts qualified by scientific training and experience to evaluate the safety and effectiveness of drugs, as safe and effective for use under the conditions prescribed, recommended, or suggested in their labeling. The CSCTC products are also “new drugs” within the meaning of 21 U.S.C. § 321(p)(2), because they have not been used to a material extent or for a material time under the conditions prescribed, recommended, or suggested in their labeling.

7. The CSCTC products are “biological products” within the meaning of the Public Health Service Act (“PHSA”), 42 U.S.C. § 262(i).

8. The CSCTC products are “human cells, tissues, or cellular or tissue-based products” (“HCT/Ps”), which are defined as “articles containing or consisting of human cells or tissues that are intended for implantation, transplantation, infusion, or transfer into a human recipient.” 21 C.F.R. § 1271.3(d).

C. Defendants failed to meet their burden to prove that the CSCTC Products meet the regulatory criteria in 21 C.F.R. § 1271.10(a)

9. The CSCTC products do not meet all of the regulatory criteria in 21 C.F.R. § 1271.10(a).

10. The CSCTC products are more than minimally manipulated within the meaning of 21 C.F.R. § 1271.10(a)(1) and § 1271.3(f).

11. The CSCTC products are not “intended for homologous use only” within the meaning of 21 C.F.R. § 1271.10(a)(2) and § 1271.3(c).

12. The SVF/Vaccinia product involves the combination of an HCT/P with “another article” within the meaning of 21 C.F.R. § 1271.10(a)(3).

13. Defendants have not met their burden of establishing that each of the SVF, SVF/Vaccinia and Expanded SVF products meets all of the regulatory criteria in 21 C.F.R. § 1271.10(a). See 21 C.F.R. § 1271.10(a); *United States v. First City Nat’l Bank of Houston*, 386 U.S. 361, 366 (1967) (holding that the general rule is that the burden is carried by the one who “claims the benefit of an exception to the prohibition of a statute”); *FTC v. Morton Salt Co.*, 334 U.S. 37, 44-45 (1948); *Harry C. Crooker & Sons v. Occupational Safety and Health Review Comm’n*, 537 F.3d 79, 85 (1st Cir. 2008).

D. Defendants failed to meet their burden to prove that their establishments qualify for the regulatory exceptions in 21 C.F.R. § 1271.15

14. The CSCTC products do not qualify Defendants’ establishment for any of the exceptions in 21 C.F.R. § 1271.15.

15. Defendants remove adipose tissue from their patients and return cells or cell debris derived from that tissue that have been altered during processing.

16. In manufacturing the CSCTC products, Defendants do not implant the HCT/P, i.e., adipose tissue, that was removed from their patients.¹³

¹³ The Court instructed the Government to present evidence regarding “whether the SVF Procedure alters the SVF cells” at trial. See fn.3, *supra* (citing ECF No. 84 at 13). Even if the Court were to find that the SVF cells (*i.e.* not adipose tissue) are the relevant “HCT/P,” for purposes of its section 1271.15(b) analysis, Defendants still do not implant “such HCT/P” that was removed from their patients.

1 17. Defendants have not met their burden of establishing that the § 1271.15(b)
2 exception to “the requirements of [21 C.F.R. Part 1271]” applies here. See 21 C.F.R. §
3 1271.15(b); *United States v. Regenerative Scis., LLC*, 741 F.3d 1314, 1322 (D.C. Cir.
4 2014) (citing *United States v. First City Nat’l Bank of Houston*, 386 U.S. at 366); *FTC v.*
5 *Morton Salt Co.*, 334 U.S. 37, 44-45 (1948); *Harry C. Crooker & Sons v. Occupational*
6 *Safety and Health Review Comm’n*, 537 F.3d 79, 85 (1st Cir. 2008).

7 18. The Same Surgical Procedure exception set forth at 21 C.F.R. §1271.15(b),
8 applies to “an establishment that removes HCT/P’s from an individual and implants such
9 HCT/P’s into the same individual during the same surgical procedure.” Section
10 1271.15(b) unambiguously describes limited circumstances wherein an establishment can
11 avail itself of the Same Surgical Procedure exception. Applying traditional tools of
12 construction, including the rule that all words be given effect, *First Charter Financial*
13 *Corp. v. United States*, 669 F.2d 1342, 1350 (9th Cir. 1982), the phrase “such HCT/P’s”
14 makes clear that the HCT/P implanted in the patient must be the HCT/P in the form
15 removed from the patient for the exception to apply. Section 1271.15(b) does not apply
16 where, as here, the HCT/P ultimately returned to the patient is plainly different from the
17 HCT/P that was removed. As the court in *US Stem Cell* recently recognized in a case
18 nearly identical to the present case, “the text of §1271.15(b) unambiguously supports the
19 FDA’s interpretation that ‘such HCT/P’s’ refers to the antecedent HCT/P removed from
20 the patient in its original form.” *US Stem Cell*, 403 F. Supp. 3d at 1288.

21 19. Instead of focusing, as required by the plain meaning of the regulation, on the
22 HCT/P in the form removed from their patients (i.e., as adipose tissue), Defendants focus
23 on just part of the removed tissue after processing (i.e., certain cells), and argue that that
24 the Same Surgical Procedure exception applies because specific cells isolated from the
25 processed tissue purportedly remain unaltered. Defendants’ expansive interpretation of
26 the narrow Same Surgical Procedure exception would completely swallow the well-
27 established statutory and regulatory rules for any product manufactured from a patient’s
28 HCT/P. Under Defendants’ interpretation, an establishment could remove any tissue from

1 any part of a patient, perform any number and type of manufacturing steps on that tissue
2 in relation to any purported surgical procedure (regardless of the risk associated with any
3 of those steps), inject the end product into any part of the patient, and then invoke the
4 Same Surgical Procedure exception as long as the end product contained one or more cells
5 that were present in the original HCT/P—no matter how wildly different in form and
6 function the end product might be. Because Defendants remove adipose tissue from their
7 patients, their interpretation, which focuses solely on returned cells, effectively reads
8 “tissue” out of the regulation.

9 20. FDA has consistently and reasonably interpreted the Same Surgical
10 Procedure exception set forth at 21 C.F.R. § 1271.15(b), and Defendants have been
11 provided adequate due process regarding FDA’s interpretation.

12 21. Part 1271 of Title 21 of the Code of Federal Regulations is not ambiguous.
13 But even if it were, in *Kisor v. Wilkie*, 139 S. Ct. 2400 (2019), the Supreme Court explained
14 that courts should defer to an agency’s interpretation of an ambiguous regulation where
15 “the character and context of the agency interpretation entitles it to controlling weight.”
16 139 S. Ct. at 2416. To guide that inquiry, courts must look to whether the agency’s
17 position represents the agency’s actual view, reflects its “fair and considered judgment,”
18 is not merely an “ad hoc” statement, does not create “unfair surprise,” and implicates the
19 agency’s substantive expertise. *Id.* at 2416-18. When deference applies, it “gives an
20 agency significant leeway to say what its own rules mean.” *Id.* at 2418. Therefore, even
21 if the relevant regulation here were ambiguous, FDA’s view regarding the impact of
22 Defendants’ processing of the CSCTC products is entitled to deference. *See Cytori*
23 *Therapeutics v. FDA*, 715 F.3d 922 (D.C. Cir. 2013); *see also Thomas Jefferson Univ. v.*
24 *Shalala*, 512 U.S. 504, 512-16 (1994), quoting *Pauley v. BethEnergy Mines, Inc.*, 501 U.S.
25 680, 697 (1991) (explaining that FDA’s interpretation should be accorded substantial
26 deference because its interpretation “necessarily require[s] significant expertise and
27 entail[s] the exercise of judgment grounded in policy concerns.”); *see also United States*
28 *v. Regenerative Scis., LLC*, 878 F. Supp. 2d 248, 258 (D.D.C. 2012); *Kisor*, 139 S. Ct. at

2417.

E. The CSCTC products are drugs and biological products regulated under the FDCA, including its adulteration and misbranding prohibitions

22. A product may be both a drug and a biological product. *See, e.g., United States v. Regenerative Scis., LLC*, 741 F.3d at 1319 (“Both of these wide-ranging definitions clearly apply to the [appellants’ stem cell product], an article derived mainly from human tissue”); *United States v. Loran Med. Sys., Inc.*, 25 F. Supp. 2d 1082, 1084-86 (C.D. Cal. 1997) (cell product made from neonatal rabbit and human fetal cells was a drug and a biological product).

23. The CSCTC products are drugs and biological products under the FDCA and section 351 of the PHSA and are subject to the provisions of the FDCA and the PHSA, including the FDCA’s adulteration, misbranding, and premarket approval requirements. 21 C.F.R. § 1271.20.

24. Because Defendants do not manufacture the CSCTC products in a manner that conforms to CGMP, the CSCTC products are adulterated within the meaning of the FDCA, 21 U.S.C. § 351(a)(2)(B).

25. The CSCTC products are misbranded within the meaning of the FDCA, 21 U.S.C. § 352(f)(1), because they are drugs and their labeling fails to bear adequate directions for use, and because they are not exempt from the requirements of 21 U.S.C. § 352(f)(1).

26. The CSCTC products are misbranded within the meaning of the FDCA, 21 U.S.C. § 353(b)(4) because they are prescription drugs and, at times prior to dispensing, their labels fail to bear, at a minimum, the symbol “Rx only.”

27. Defendants’ SVF/Vaccinia product is misbranded within the meaning of the FDCA, 21 U.S.C. § 352(j), because it is “dangerous to health when used in the dosage or manner, or with the frequency or duration prescribed, recommended, or suggested in the labeling thereof.”

F. Defendants and their adulterated and misbranded CSCTC products violate the FDCA

28. Section 331(k) prohibits taking any action with respect to a drug “if such act is done while such article is held for sale . . . after shipment in interstate commerce and results in such article being adulterated or misbranded.” 21 U.S.C. § 331(k). A product is “held for sale” if it is used for any purpose other than personal consumption. *United States v. Kaplan*, 836 F.3d 1199, 1209 (9th Cir. 2016) (holding that a physician’s use of a medical device on a patient is covered by the FDCA phrase “held for sale”); *United States v. Regenerative Scis., LLC*, 741 F.3d at 1320 (D.C. Cir. 2014) (rejecting a narrow reading of 21 U.S.C. § 331(k), as at odds with “a statutory scheme designed to regulate the safety of drugs at every stage of their distribution”); *United States v. Torigian Labs., Inc.*, 577 F. Supp. 1514, 1521 (E.D.N.Y. 1984), *aff’d*, 751 F.2d 373 (2d Cir. 1984) (unpublished table decision); *see United States v. Diapulse Corp. of Am.*, 514 F.2d 1097, 1098 (2d Cir. 1975); *United States v. Evers*, 643 F.2d 1043, 1050 (5th Cir. 1981) (“A practicing physician may also fall within the bounds of this section. . . . Doctors holding drugs for use in their practice are clearly one part of the distribution process, and doctors may therefore hold drugs for sale within the meaning of [21 U.S.C. § 331(k)].”); *US Stem Cell*, 403 F. Supp. 3d at 1298 n.11.

29. Defendants’ CSCTC products are “held for sale” by Defendants because they market and offer their products to patients for commercial purposes other than Defendants’ own personal consumption.

30. Defendants’ CSCTC products are also held for sale after shipment of one or more of their components in interstate commerce. Defendants’ CSCTC products satisfy section 331(k)’s “after shipment in interstate commerce” requirement because at least one component of the CSCTC products (e.g., 0.9% Sodium Chloride Injection, USP) has traveled in interstate commerce. The FDCA defines “drug” to include components of a drug. 21 U.S.C. § 321(g)(1)(D). Courts consistently have interpreted sections 331(k) and 321(g)(1)(D) to mean that the final drug product (here, the CSCTC products) need not

1 have been shipped in interstate commerce in completed form to satisfy the requirement.
2 *See, e.g., Baker v. United States*, 932 F.2d 813, 814-15 (9th Cir. 1991) (“the ‘shipment in
3 interstate commerce’ requirement is satisfied even when only an ingredient is transported
4 interstate”); *United States v. Dianovin Pharms., Inc.*, 475 F.2d 100, 103 (1st Cir. 1973)
5 (“appellants’ use of components shipped in interstate commerce to make vitamin K for
6 injection brought their activities within section 331(k), and conferred jurisdiction to
7 restrain violations thereof upon the district court”); *Regenerative Scis.*, 741 F.3d at 1320-
8 21; *US Stem Cell*, 403 F. Supp. 3d at 1298 n.11. When one of a drug’s components has
9 been shipped in interstate commerce, using that component to manufacture an article of
10 drug that is or becomes adulterated or misbranded violates 21 U.S.C. § 331(k). *Dianovin*
11 *Pharms.*, 475 F.2d at 103.

12 31. Components received from outside of California that Defendants use in the
13 preparation and administration of the CSCTC products include 0.9% Sodium Chloride
14 Injection, USP and 5% Dextrose in Lactated Ringer’s Injection, both of which originate
15 outside the State. Defendants’ manufacturing process also involves an enzyme mixture
16 product (that degrades collagen, among other proteins) made in Indiana. Vaccinia Vaccine
17 used to manufacture the SVF/Vaccinia product was shipped in interstate commerce from
18 Georgia. And their Expanded SVF product comes from a firm outside of California.
19 Further, as a general matter, Congress has specified that “the connection with interstate
20 commerce required for jurisdiction” in “any action to enforce the requirements of [the
21 FDCA] respecting a . . . drug . . . shall be presumed to exist.” 21 U.S.C. § 379a; *see United*
22 *States v. Chung’s Prods. LP*, 941 F. Supp. 2d 770, 795 (S.D. Tex. 2013).

23 32. Defendants violate 21 U.S.C. § 331(k) by causing the adulteration of CSCTC
24 products within the meaning of 21 U.S.C. § 351(a)(2)(B), while they are held for sale after
25 shipment of one or more of their components in interstate commerce.

26 33. Defendants violate 21 U.S.C. § 331(k) by causing the misbranding of CSCTC
27 products within the meaning of 21 U.S.C. §§ 352(f)(1), 352(j), and 353(b)(4), while they
28 are held for sale after shipment of one or more of their components in interstate commerce.

34. Defendants CSCTC, Berman, and Lander violate 21 U.S.C. § 331(c) by receiving drugs that are misbranded within the meaning of 21 U.S.C. §§ 352(f)(1) and 353(b)(4) in interstate commerce and delivering or proffering for delivery such drugs for pay or otherwise.

35. Defendants claim that the FDCA does not apply to them because they are simply physicians who are practicing medicine and performing surgery. However, even doctors must comply with FDCA requirements. The FDCA “enacts a comprehensive, uniform regulatory scheme for the distribution of drugs.” *Regenerative Scis*, 741 F.3d at 1319-20. Although the FDCA contains some exceptions that apply to physicians, Congress did not create a broad “practice of medicine” exception that allows physicians to do whatever they please. *Id.*; *see also United States v. Evers*, 643 F.2d 1043, 1048 (5th Cir. 1981) (“[W]hile the [FDCA] was not intended to regulate the practice of medicine, it was obviously intended to control the availability of drugs for prescribing by physicians.”); *see also US Stem Cell*, 403 F. Supp. 3d at 1300 n.12. Moreover, although Defendants claim they merely engage in “off-label uses” of medical products, that argument fails because the CSCTC products have not been approved by FDA for *any* use. *See Regenerative Scis.*, 741 F.3d at 1324-25 (appellant doctors’ prescription of unapproved stem cell “Mixture” not entitled to categorical exemption from FDA labeling requirements).

G. Defendants’ purported affirmative defense lacks merit and does not excuse their FDCA violations

36. Allegations that an agency acted arbitrarily or capriciously may be brought, under certain circumstances not present here, pursuant to the Administrative Procedure Act (“APA”). *See, e.g.*, 5 U.S.C. § 706. However, the limited waiver of sovereign immunity under the APA is a cause of action—not an affirmative defense. *See generally* 5 U.S.C. § 702 (providing an independent cause of action for judicial review of final agency action).

37. In any event, FDA’s decisions to take enforcement action are “not subject to

1 judicial review under the APA.” *See Heckler v. Chaney*, 470 U.S. 821, 838 (1985). Under
2 its enforcement power, FDA has absolute discretion on whether to bring an enforcement
3 action. *Id.* at 831. Here, FDA’s exercise of discretion is valid because it is not based on
4 an unjustifiable standard such as “race, religion, or other arbitrary classification.” *See,*
5 *e.g., Bordenkircher v. Hayes*, 434 U.S. 357, 364 (1978). FDA has also treated similarly
6 situated parties in the same manner as it has treated Defendants. *See, e.g., United States*
7 *v. U.S. Stem Cell Clinic*, 403 F. Supp. 3d 1279.

8 38. There is no due process violation where an agency acts and provides for an
9 adequate opportunity for the petitioner to be heard. *See Mathews v. Eldridge*, 424 U.S.
10 319, 349 (1976). Additionally, due process is not prescriptive in its requirements. FDA’s
11 formal notice-and-comment rulemaking process, iterative guidance, Federal Register
12 notices concerning FDA’s rulemaking and guidance, and attendant opportunities for
13 notice, hearing, and comment have provided sufficient opportunity for Defendants to be
14 heard regarding FDA’s interpretation of the Same Surgical Procedure exception. *See*
15 *Pinnacle Armor, Inc. v. United States*, 648, 717 (9th Cir. 2011) (“All that is required before
16 a deprivation of a protected interest is notice and opportunity for hearing appropriate to
17 the nature of the case.”) (internal quotations omitted).

18 39. Moreover, inadequate notice cannot be pleaded where not only is actual
19 notice not required but Defendants had actual notice regarding FDA’s interpretation in
20 fact. *See Foss v. Nat’l Marine Fisheries Services*, 161 F.3d 584, 589-90 (9th Cir. 1998);
21 *see also Lyng v. Payne*, 476 U.S. 926, 942-43 (1986).

22 40. Substantive due process claims must fail where the government’s actions
23 have a substantial relation to the public health, safety, or well-being. *Euclid v. Ambler*
24 *Realty Co.*, 272 U.S. 365, 395 (1926); *Kim v. United States*, 121 F.3d 1269, 1273-74 (9th
25 Cir. 1997); *Dodd V. Hood River County*, 59 F.3d 852, 864 (9th Cir. 1995) (“There is no
26 denial of substantive due process if the question as to whether the government acted
27 arbitrarily or capriciously is at least debatable.”) (internal quotations omitted).

28 41. Defendants’ additional argument that patients have a constitutional right to

1 control their tissues and cells also fails. There is simply no constitutional right to receive
2 unapproved products regulated by the FDA. *See United States v. Rutherford*, 442 U.S.
3 544, 552 (1979) (terminally ill patients do not have a constitutional right to obtain the
4 unapproved drug Laetrile); *Abigail Alliance v. von Eschenbach*, 495 F.3d 695, 711 (D.C.
5 Cir. 2007) (terminally ill patients have no constitutional right to unapproved experimental
6 drugs).

7 **H. The Government is entitled to a statutory injunction to enjoin Defendants' FDCA**
8 **violations and protect the public health**

9 42. Under 21 U.S.C. § 332(a), district courts have jurisdiction to enjoin violations
10 of the FDCA. *United States v. Organic Pastures Dairy Co.*, 708 F. Supp. 2d 1005, 1011
11 (E.D. Cal. 2010); *United States v. Innovative Biodefense, Inc.*, 2019 WL 2428672, at *3
12 (C.D. Cal. June 5, 2019). The FDCA's injunctive power should be exercised in light of
13 its purpose to protect the public health, *see United States v. An Article of Drug . . . Bacto-*
14 *Unidisk*, 394 U.S. 784, 798 (1969), and is appropriate when the United States establishes
15 that the defendant has violated the applicable statute and that there exists "some cognizable
16 danger of recurrent violation." *United States v. W.T. Grant Co.*, 345 U.S. 629, 633 (1953);
17 *United States v. Rhody Dairy*, 812 F. Supp.2d 1239, 1245-46 (W.D. Wash. 2011).

18 43. The probability of future violations may be inferred from past unlawful
19 conduct. *See United States v. Laerdal Mfg. Corp.*, 73 F.3d 852, 857 (9th Cir. 1995) (citing
20 *S.E.C. v. Koracorp Indus., Inc.*, 575 F.2d 692, 698 (9th Cir. 1978)); *United States v.*
21 *Odessa Union Warehouse Coop*, 833 F.2d 172, 176 (9th Cir. 1987); *Organic Pastures*,
22 708 F. Supp. 2d at 1012.

23 44. Defendants argue that injunctive relief is inappropriate because they are not
24 currently manufacturing certain products and have "no interest" in manufacturing them
25 without appropriate FDA approvals. However, it is well-established that the "the court's
26 power to grant injunctive relief survives discontinuance of the illegal conduct." *United*
27 *States v. W.T. Grant Co.*, 345 U.S. 629, 633 (1953); *see also United States v. Odessa Union*
28 *Warehouse Co-op*, 833 F.2d 172, 176 (9th Cir. 1987). "[M]ere cessation of violative

1 activities is not, of itself, grounds for denial of a statutory injunction sought to protect the
2 public health. This is particularly true where such cessation arises only as a result of . . .
3 threatened litigation.” *United States v. Sene X Eleemosynary Corp. Inc.*, 479 F. Supp. 970,
4 981 (S.D. Fla. 1979) (internal citation omitted).

5 45. Plaintiff, the United States of America, is entitled to a statutory injunction to
6 protect the public health because the evidence shows that Defendants have repeatedly
7 violated (a) 21 U.S.C. § 331(k) by causing the adulteration and misbranding of drugs while
8 holding them for sale after shipment of one or more of their components in interstate
9 commerce, and (b) 21 U.S.C. § 331(c), by receiving misbranded drugs in interstate
10 commerce and delivering or proffering for delivery such drugs for pay or otherwise. Based
11 on these repeated violations, there is a reasonable expectation that Defendants will
12 continue to violate the FDCA in the future if not enjoined.

13
14 Any Conclusion of Law which is properly deemed a Finding of Fact shall be
15 considered a Finding of Fact.

16
17 DATED: _____

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20 _____
21 HONORABLE JESUS G. BERNAL
22 United States District Judge
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